

Design Without Compromise

Get to market quickly with a powerful, compact x86 RDK Tool

Product overview

The AMD Geode™ GX Single Board Computer (SBC) Reference Design Kit (RDK) is a compact, low-power, and high-performance tool developed to enable the next generation of single-board computing and network appliances. Building on AMD's philosophy of delivering low total cost of ownership, this RDK is optimized to provide value through all phases of the design and development cycle, and to serve as a powerful reference design tool that's virtually manufacture-ready.

Powerful capabilities with a small form factor

The AMD Geode GX SBC reference design kit is based on 4th generation RDK technology, and provides a complete system design package that gives designers flexibility, versatility, and enhanced capabilities, all in a small-sized package that measures approximately 5.5" x 5".

The RDK is driven by an AMD Geode GX 466@0.9W processor* that delivers the flexibility of the x86 instruction set with the power to run current operating systems. The processor is complemented by the AMD Geode CS5536 companion chip, which provides general I/O support, including USB 2.0, audio, and ATA 100.

Lead-free, four-layer technology

The AMD Geode GX SBC RDK is designed and produced to meet the latest international standards for lead-free components, which enables you to create new products with assurance. New four-layer device technology leads to lower production and development costs, which helps drive toward lower overall cost of ownership for end products that feature AMD x86 technology.



AMD is committed to low-power x86

The AMD Geode GX SBC reference design kit and other advanced development tools represent the AMD commitment to low-power, customer-focused solutions for the x86 marketplace.

The SBC RDK provides an integrated suite of support and development capabilities to help reduce development costs and time-to-market for SBC applications. The SBC RDK contains materials needed to quickly and efficiently move single-board computer and networked computing appliance solutions to market.

Power management

Single Board Computer Reference Design Kit Featuring:

- Small form factor – approximately 5.5" x 5"
- Four-layer, lead-free board design
- Low power – 6 W typical, 1 W standby with no fan
- Support for multiple operating systems – Microsoft® Windows® CE, XP, and Linux
- Legacy I/O option capabilities through a daughter card
- 4 USB 2.0 host ports
- High-bandwidth Ethernet (10-100Mbps)
- Mini IDE Interface
- Display resolution up to 1600x1200
- CRT or TFT display support
- Additional audio peripheral connectivity

*This processor operates at 333MHz. Model numbers reflect performance as described here: <http://www.amd.com/connectivitysolutions/geodelxbenchmark>.

AMD Geode™ GX SBC Reference Design Kit

Product benefits

- Provides added support for customers in the education market.
- Enables fast time-to-market for customers
 - Complete infrastructure to enable quick time to production
- Implements low-cost engineering concepts for GX processor

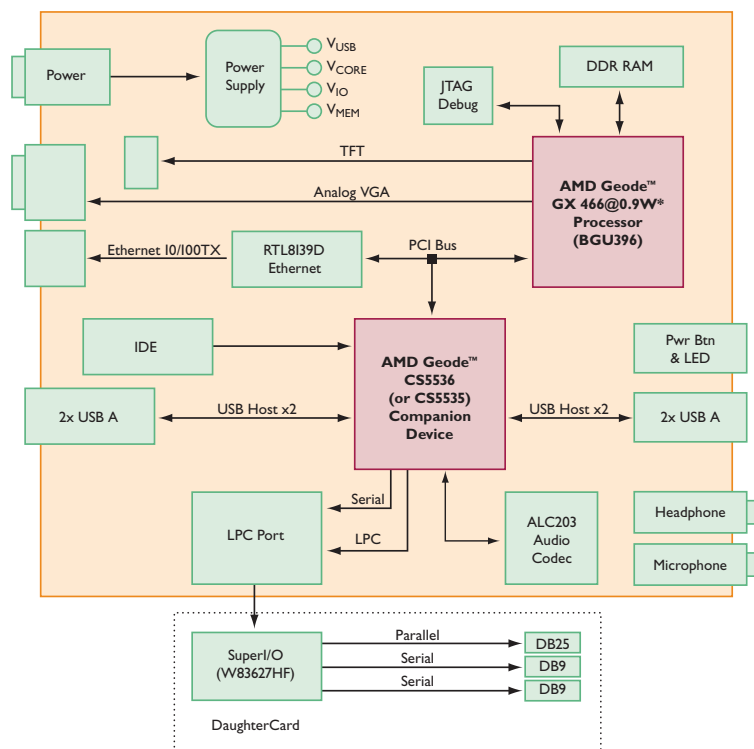
Additional features

- Serial port expansion for security
- RTC with Battery Backup
- LPC expansion for Legacy I/O
- Full schematics
- Layout titles
- Complete software driver package
- Documentation

Application markets

The AMD Geode™ GX SBC RDK features a flexible design that can address a broad range of embedded devices:

- Single Board Computer
- Point-of-Sale (POS)
- Corporate Thin Client
- Network Appliances
- Kiosk



Product support

The AMD Geode GX SBC RDK provides a complete solution, including schematics, layout, and full documentation. Full integration with AMD Geode Solutions technologies, low-power requirements, and design flexibility help reduce costly time-to-market and enable more effective, efficient SBC designs.

About AMD

AMD (NYSE:AMD) designs and produces innovative microprocessors, Flash memory devices, and low-power processor solutions for the computer, communications, and

consumer electronics industries. AMD is dedicated to delivering standards-based, customer-focused solutions for technology users, ranging from enterprises and governments to individual consumers.

For more information visit www.amd.com.

For more information, please visit www.amd.com/geodegx_sbc_rdk

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